



## Air Cooled Screw Chiller T1 Condition 50 Hz

### Specification

UNIT SIZE		APCSEN3A360B	APCSEN3A450B	APCSEN3A600	APCSEN3A720B	APCSEN3A800B	APCSEN3A900B
COOLING CAPACITY	kW	364	450	594	729	810	902
POWER SUPPLY		380-400V,3P+N+PE,50Hz					
RATED POWER CONSUMPTION	kW	113	138	184	227	251	278
<b>COMPRESSOR</b>							
COMPRESSOR TYPE		Semi- hermetic, twin screw compressor					
NUMBER OF COMPRESSORS		1	1	1	2	2	2
OIL CHARGE PER COMPRESSOR	Liters	BSE170/ 35	BSE170/ 35	BSE170/ 35	BSE170/ 35*2	BSE170/ 35*2	BSE170/ 35*2
CAPACITY ADJUSTABLE RANGE	%	25%,50%,75%,100% 4-step			12.5%, 25%, 37.5%, 50%, 62.5%, 75%, 87.5%, 100% 8-step		
MOTOR OVERLOAD PROTECTION		ELECTRONIC					
OIL LUBRICATION		INJECTION					
TOTAL CRANKCASE HEATER	W	300	300	300	600	600	600
REFRIGERANT		R-134a					
EXPANSION VALVE DEVICE		ELECTRONIC EXPANSION VALVE					
<b>FAN</b>							
NUMBER OF FAN/ FAN DIA	mm	6/900	8/900	10/800	12/900	14/900	16/900
AIR VOLUME	m <sup>3</sup> /h	23000 × 6	23000 × 8	20000 × 10	23000 × 12	23000 × 14	23000 × 16
MOTOR INPUT	kW	2.8 × 6	2.8 × 8	1.8 × 10	2.8 × 12	2.8 × 14	2.8 × 16
FAN MOTOR SPEED	RPM	940	940	940	940	940	940
<b>COOLER</b>							
COOLER TYPE		Shell-tube heat exchanger					
SHELL DIAMETER/ LENGTH	mm	450/2436	450/2436	450/3046	600/3050	550/3496	600/3496
TOTAL WATER HOLDING VOLUME	Liters	220	204	470	536	641	629
WATER FLOW	t/h	62.6	77.4	102	125	139	155
WATER PRESSURE DROP	kPa	50	55	60	65	70	80
WATER IN/OUT PIPE DIAMETER	mm	DN125	DN125	DN125	DN150	DN150	DN150
WATER SIDE FOULING FACTOR	m <sup>2</sup> :k/kW	0.086					
<b>GENERAL</b>							
NUMBER OF REFRIGERANT CIRCUITS		1	1	1	2	2	2
REFRIGERANT CHARGE	kg	80	122	125	80*2	80+122	122*2
LENGTH/ WIDTH/ HEIGHT	mm	3730/2280/2370	4730/2280/2370	5700/2280/2400	7425/2280/2430	8425/2280/2430	9425/2280/2430
SHIPPING/OPERATING WEIGHTS	kg	3320/3520	4325/4530	5000/5200	6700/7000	7750/8050	8900/9200

**Notes:**

- Nominal cooling capacities are based on the following conditions:  
Chilled water inlet/outlet temp: 12°C/7°C; Outdoor temp (DB/WB):35°C/24°C.
- The applicable ambient temperature range of R134a air-cooled screw unit is 15°C~43°C.